

CLAIMS

1. A film comprising: a transparent substrate film; and, stacked on the transparent substrate film in the following order, a hardcoat and a slip layer,

said hardcoat being formed of a cured product of a material comprising an ultraviolet-curable resin and a photopolymerization initiator which initiates the photopolymerization of the ultraviolet-curable resin upon exposure to ultraviolet light in its wavelength region other than the wavelength region absorbable by the transparent substrate film,

said slip layer containing a slip agent.

2. The film according to claim 1, wherein the slip layer is constructed so that the content of the slip agent in the slip layer increases from the top surface of the slip layer toward the top surface of the hardcoat.

3. The film according to claim 1, wherein the slip agent is silicone.

4. The film according to claim 1, wherein the ultraviolet wavelength region, which is absorbed by the transparent substrate film, is less than 350 nm, and the ultraviolet wavelength region, which is absorbed by the photopolymerization initiator, is 350 to 450 nm.

5. The film according to claim 1, wherein the surface of the hardcoat has fine concaves and convexes.

6. A process for producing a film comprising a transparent substrate film and a hardcoat provided on the transparent substrate film, said process comprising the steps of:

forming, on the transparent substrate film, an ultraviolet-curable layer comprising an ultraviolet-curable resin and a photopolymerization initiator which initiates the photopolymerization of the ultraviolet-curable resin upon exposure to ultraviolet light in its wavelength region other than the wavelength region absorbable by the transparent substrate film;

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covering the top surface of the ultraviolet-curable layer with an oxygen impermeable material; and

applying ultraviolet light in its wavelength region, which permits the photopolymerization initiator to initiate the photopolymerization of the ultraviolet light-curable layer, through the transparent substrate film to cure the ultraviolet-curable layer.

7. The process according to claim 6, which further comprises, after the ultraviolet-curable layer has been cured, applying ultraviolet light in its wavelength region, which permits the photopolymerization initiator to initiate the photopolymerization of the ultraviolet light-curable layer, through the ultraviolet-cured layer to further cure the ultraviolet-cured layer.

8. The method according to claim 6, wherein the ultraviolet wavelength region, which is absorbed by the transparent substrate film, is less than less than 350 nm, and the ultraviolet wavelength region, which is absorbed by the photopolymerization initiator, is 350 to 450 nm.

9. The method according to claim 6, wherein a slip layer containing a slip agent is further formed on the ultraviolet-cured layer.

10. The method according to claim 9, wherein the slip layer is formed so that the content of the slip agent in the slip layer increases from the top surface of the slip layer toward the top surface of the ultraviolet-cured layer.

11. The method according to claim 6, which further comprises forming fine concaves and convexes on the surface of the ultraviolet-cured layer.

12. A film produced by the process according to any one of claims 6 to 11.

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